> has	# 90/01
(NSOCIAL	Number: 0.9/042, 488A Corrected by the STIC Sylvens Branch Car Processing Rate: 1/2/2009
	Changed a file from non-ASCII to ASCII ENTERED Verified by:(STIC s
	Changed the margins in cases where the sequence text was wrapped down to the next line.
	Edited a format error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was   The prior application data; or  other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the 'Number of Sequences' field. The applicant spelled out a number instead of using an integer
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEO ID NO when obviously incorrect. The sequence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:+, . **
	Deleted extra, invalid, headings used by an applicant, specifically:
	Deleted: non-ASCII *garbago* at the beginning/end of files: secretary initials/filename at end of file page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an arror in the Number of Sequences field, specifically:
	A "Hard Pago Break" code was inserted by the applicant. All occurrences had to be deleted.
	Deloted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:
	Other: corrected spelling of RELATED in <2207 response
7 7	
• .	The state of the s

Examiner: The above corrections must be communicated to the applicant in the first Office Aciden. DO NOT send a copy of this form.

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10112001\1042488A.raw

```
3 <110> APPLICANT: EVANS, RONALD M.
        NO, DAVID
        SAEZ, ENRIQUE
7 <120> TITLE OF INVENTION: METHODS FOR MODULATING EXPRESSION OF EXOGENOUS GENES IN
        MAMMALIAN SYSTEMS, AND PRODUCTS RELATED THERETO
10 <130> FILE REFERENCE: SALK1520-2
12 <140> CURRENT APPLICATION NUMBER: 09/042,488A
13 <141> CURRENT FILING DATE: 1998-03-16
15 <150> PRIOR APPLICATION NUMBER: 08/974,530
16 <151> PRIOR FILING DATE: 1997-11-19
18 <150> PRIOR APPLICATION NUMBER: 08/628,830
19 <151> PRIOR FILING DATE: 1996-04-05
21 <160> NUMBER OF SEQ ID NOS: 18
23 <170> SOFTWARE: PatentIn Ver. 2.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 71
27 <212> TYPE: PRT
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
        peptide sequence
34 <220> FEATURE:
35 <221> NAME/KEY: MOD_RES
36 <222> LOCATION: (2)..(3)
37 <223> OTHER INFORMATION: Any amino acid
39 <220> FEATURE:
40 <221> NAME/KEY: MOD_RES
41 <222> LOCATION: (5)..(6)
42 <223> OTHER INFORMATION: Any amino acid
44 <220> FEATURE:
45 <221> NAME/KEY: MOD_RES
46 <222> LOCATION: (8)
47 <223> OTHER INFORMATION: Any amino acid
49 <220> FEATURE:
50 <221> NAME/KEY: MOD_RES
51 <222> LOCATION: (10)
52 <223> OTHER INFORMATION: Any amino acid
54 <220> FEATURE:
55 <221> NAME/KEY: MOD_RES
56 <222> LOCATION: (12)
57 <223> OTHER INFORMATION: Any amino acid
59 <220> FEATURE:
60 <221> NAME/KEY: MOD_RES
61 <222> LOCATION: (14)..(17)
62 <223> OTHER INFORMATION: Any amino acid
64 <220> FEATURE:
```

65 <221> NAME/KEY: MOD\_RES

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10112001\I042488A.raw

- 66 <222> LOCATION: (19)..(20)
- 67 <223> OTHER INFORMATION: Any amino acid
- 69 <220> FEATURE:
- 70 <221> NAME/KEY: MOD\_RES
- 71 <222> LOCATION: (23)
- 72 <223> OTHER INFORMATION: Any amino acid
- 74 <220> FEATURE:
- 75 <221> NAME/KEY: MOD\_RES
- 76 <222> LOCATION: (26)
- 77 <223> OTHER INFORMATION: Any amino acid
- 79 <220> FEATURE:
- 80 <221> NAME/KEY: MOD\_RES
- 81 <222> LÖCATION: (28)..(38)
- 82 <223> OTHER INFORMATION: Any amino acid
- 84 <220> FEATURE:
- 85 <221> NAME/KEY: MOD\_RES
- 86 <222> LOCATION: (40)..(47)
- 87 <223> OTHER INFORMATION: Any amino acid
- 89 <220> FEATURE:
- 90 <221> NAME/KEY: MOD\_RES
- 91 <222> LOCATION: (49)..(51)
- 92 <223> OTHER INFORMATION: Any amino acid
- 94 <220> FEATURE:
- 95 <221> NAME/KEY: MOD\_RES
- 96 <222> LOCATION: (53)..(54)
- 97 <223> OTHER INFORMATION: Amny amino acid
- 99 <220> FEATURE:
- 100 <221> NAME/KEY: MOD\_RES
- 101 <222> LOCATION: (56)..(57)
- 102 <223> OTHER INFORMATION: Any amino acid
- 104 <220> FEATURE:
- 105 <221> NAME/KEY: MOD\_RES
- 106 <222> LOCATION: (59)..(60)
- 107 <223> OTHER INFORMATION: Any amino acid
- 109 <220> FEATURE:
- 110 <221> NAME/KEY: MOD\_RES
- 111 <222> LOCATION: (63)..(64)
- 112 <223> OTHER INFORMATION: Any amino acid
- 114 <220> FEATURE:
- 115 <221> NAME/KEY: MOD\_RES
- 116 <222> LOCATION: (67)..(69)
- 117 <223> OTHER INFORMATION: Any amino acid
- 119 <400> SEQUENCE: 1
- W--> 120 Cys Xaa Xaa Cys Xaa Xaa Asp Xaa Ala Xaa Gly Xaa Tyr Xaa Xaa Xaa
  - 121 1 5 10 15
- W--> 123 Xaa Cys Xaa Xaa Cys Lys Xaa Phe Phe Xaa Arg Xaa Xaa Xaa Xaa
  - 124 20 25 3
- W--> 126 Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys 127 35 40 45

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10112001\I042488A.raw

W--> 129 Xaa Xaa Xaa Lys Xaa Xaa Arg Xaa Xaa Cys Xaa Xaa Cys Arg Xaa Xaa 130 50 W--> 132 Lys Cys Xaa Xaa Xaa Gly Met 70 133 65 136 <210> SEQ ID NO: 2 137 <211> LENGTH: 5 138 <212> TYPE: PRT 139 <213> ORGANISM: Artificial Sequence 141 <220> FEATURE: 142 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide 145 <400> SEQUENCE: 2 146 Glu Gly Cys Lys Gly 147 1 150 <210> SEQ ID NO: 3 151 <211> LENGTH: 5 152 <212> TYPE: PRT 153 <213> ORGANISM: Artificial Sequence 155 <220> FEATURE: 156 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 157 peptide 159 <400> SEQUENCE: 3 160 Gly Ser Cys Lys Val 164 <210> SEQ ID NO: 4 165 <211> LENGTH: 2241 166 <212> TYPE: DNA 167 <213> ORGANISM: Artificial Sequence 169 <220> FEATURE: 170 <223> OTHER INFORMATION: Description of Artificial Sequence: Recombinant VgEcR 173 <220> FEATURE: 174 <221> NAME/KEY: CDS 175 <222> LOCATION: (1)..(2238) 177 <400> SEQUENCE: 4 178 atg gcc ccc ccg acc gat gtc agc ctg ggg gac gag ctc cac tta gac 179 Met Ala Pro Pro Thr Asp Val Ser Leu Gly Asp Glu Leu His Leu Asp 5 180 182 ggc gag. gac gtg gcg atg gcg cat gcc gac gcg cta gac gat ttc gat 183 Gly Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp 20 186 ctg gac atg ttg ggg gac ggg gat tcc ccg ggt ccg gga ttt acc ccc 187 Leu Asp Met Leu Gly Asp Gly Asp Ser Pro Gly Pro Gly Phe Thr Pro 192 190 cac gac tcc gcc ccc tac ggc gct ctg gat atg gcc gac ttc gag ttt 191 His Asp Ser Ala Pro Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Phe 50 55 192 194 gag cag atg ttt acc gat gcc ctt gga att gac gag tac ggt ggg aag 240 195 Glu Gln Met Phe Thr Asp Ala Leu Gly Ile Asp Glu Tyr Gly Gly Lys



Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10112001\1042488A.raw

196	65					70					75					80	
		cta	ggt	acc	tct	aga	agg	ata	tcg	aat	tct	ata	tct	tca	ggt	cgc	288
						Arg											
200			-		85		-			90					95		
202	gat	gat	ctc	tcg	cct	tcg	agc	agc	ttg	aac	gga	tac	tcg	gcg	aac	gaa	336
203	Asp	Asp	Leu	Ser	Pro	Ser	Ser	Ser	Leu	Asn	Gly	Tyr	Ser	Ala	Asn	Glu	
204	_	_		100					105					110			
206	agc	tgc	gat	gcg	aag	aag	agc	aag	aag	gga	cct	gcg	cca	cgg	gtg	caa	384
207	Ser	Cys	Asp	Ala	Lys	Lys	Ser	Lys	Lys	Gly	${\tt Pro}$	Ala	${\tt Pro}$	Arg	Val	Gln	
208			115					120					125				
210	gag	gag	ctg	tgc	ctg	gtt	tgc	ggc	gac	agg	gcc	tcc	ggc	tac	cac	tac	432
211	Glu	Glu	Leu	Cys	Leu	Val	Cys	Gly	Asp	Arg	Ala	Ser	Gly	Tyr	His	Tyr	
212		130					135					140					
214	aac	gcc	ctc	acc	tgt	gga	tcc	tgc	aag	gtg	ttc	ttt	cga	cgc	agc	gtt	480
215	Asn	Ala	Leu	Thr	Cys	Gly	Ser	Cys	Lys	Val	Phe	Phe	Arg	Arg	Ser	Val	
216	145				•	150					155					160	•
218	acg	aag	agc	gcc	gtc	tac	tgc	tgc	aag	ttc	ggg	cgc	gcc	tgc	gaa	atg	528
219	Thr	Lys	Ser	Ala	Val	Tyr	Cys	Cys	Lys	Phe	Gly	Arg	Ala	Cys	Glu	Met	
220	•				165					170	•				175		
222	gac	atg	tac	atg	agg	cga	aag	tgt	cag	gag	tgc	cgc	ctg	aaa	aag	tgc	576
223	Asp	Met	Tyr	Met	Arg	Arg	Lys	Cys	Gln	$\operatorname{Glu}$	Cys	Arg	Leu	Lys	Lys	Cys	
224				180		•			185					190			
226	ctg	gcc	gtg	ggt	atg	cgg	ccg	gaa	tgc.	gtc	gtc	ccg	gag.	aac	caa	tgt	624
227	Leu	Ala	Val	Gly	Met	Arg	Pro	Glu	Cys	Val	Val	Pro	Glu	Asn	Gln	Cys	
228			195					200					205				
						gaa											672
231	Ala	Met	Lys	Arg	Arg	Glu	Lys	Lys	Ala	Gln	Lys	Glu	Lys	Asp	Lys	Met	
232		210					215					220					
						tct											720
		Thr	Ser	Pro	Ser	Ser	Gln	His	Gly	Gly	Asn	Gly	Ser	Leu	Ala	Ser	
236						230					235					240	
						ttt											768
239	Gly	Gly	Gly	Gln	_	Phe	Val	Lys	Lys		Ile	Leu	Asp	Leu		Thr	
240					245					250					255		
						cat											816
	Cys	Glu	Pro		Gln	His	Ala	Thr		Pro	Leu	Leu	Pro		GLu	IIe	
244				260					265					270			064
						gcg											864
	Leu	Ala	_	Cys	Gln	Ala	Arg		ITe	Pro	Ser	Leu		Tyr	Asn	GIn	
248			275					280					285				010
						aag											912
	Leu		Val	Ile	Tyr	Lys		Пе	Trp	Tyr	GIn		GLY	Tyr	GIU	GIN	
252		290					295					300					0.60
						ctc											960
		Ser	GLu	GLu	Asp	Leu	Arg	arg	тте	мет		GIN	Pro	ASP	GIU		
	305					310			<b>_</b>		315		~	-+-	200	320	1008
258	gag	agc	caa	acg	gac	gtc	agc	דננ	cgg	cat	aca	acc mb~	yay ci	ald T1	mh~	а L а т 1 ^	1009
	GLU	ser	GIN	Thr		Val	ser	rne	arg		тте	THE	GIU	тте	335	TIE	
260					325					330					333		



DATE: 10/11/2001

PATENT APPLICATION: US/09/042,488A

TIME: 13:39:29

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10112001\I042488A.raw

								gag Glu									1056
264				340					345					350			
								cag									1104
268		_	355					Gln 360					365				
								atg									1152
	Ser		Val	Met	Met	Leu		Met	Ala	Arg	Arg		Asp	His	Ser	Ser	
272		370					375				1 1.	380					1000
								aat									1200
275		ser	. i.e	Pne	Pne	390	ASII	Asn	Arg	Ser	395	THE	Arg	ASP	ser	400	
		atσ	acc	aga	atσ		αat	aac	att	σаа		cta	cta	cat.	ttc		1248
								Asn									
280	-10			0_1	405					410					415	-1-	
	cqc	caa	atg	ttc	tcg	atg	aag	gtg	gac	aac	gtc	gaa	tac	gcg	ctt	ctc	1296
								Val									
284				420					425					430			
								gac									1344
	Thr	Ala		Val	Ile	Phe	Ser	Asp	Arg	Pro	Gly	Leu		Lys	Ala	Gln	
288			435		_ 4			440					445		~++	+-+	1202
								tac									1392
291	ьeu	450	GIU	Ата	тте	GIII	455	Tyr	TAT	TTE	ASP	460	ьеи	ALG	TIE	TYT	
	ata		aac	cac	cac	tac		gac	tca	atσ	age		atc	ttc	tac	gca	1440
								Asp									
296				5		470	1				475				•	480	
		ctg	ctc	tcg	atc	ctc	acc	gag	ctg	cgt	acg	ctg	ggc	aac	cag	aac	1488
299	Lys	Leu	Leu	Ser	Ile	Leu	Thr	Glu	Leu	Arg	Thr	Leu	Gly	Asn	Gln	Asn	
300					485					490					495		
								aag									1536
	Ala	Glu	Met	_	Phe	Ser	Leu	Lys		Lys	Asn	Arg	Lys		Pro	Lys	
304			~~~	500	a+ a	+~~	~~~	~++	505	<b>~~</b>	2+0	000	003	510	a+a	G2 G	1584
								gtt Val									1304
308	FIIC	Leu	515	GIU	Tie	пр	nsp	520	1113	nia	110	110	525	OCI	· u _	0111	
	t.ca	cac		caq	att	acc	caq	gag	qaq	aac	qaq	cqt		gag	cqq	gct	1632
								Glu									
312		530					535					540			-		
								ggg									1680
		Arg	Met	Arg	Ala	Ser	Val	Gly	Gly	Ala		Thr	Ala	Gly	Ile		
	545					550					555					560	
318	tgc	gac	tct	gcc	tcc	act	tcg	gcg	gcg	gca	gcc	gcg	gcc	cag	cat	cag	1728
	Cys	Asp	Ser	Ala		Thr	Ser	Ala	Ата		Ата	Ата	Ата	GIN	н1S	GIN	
320	ac+		act	024	565	027	000	caa	000	570	too	cta	200	na n		rat	1776
								Gln									1,,0
324	FIO	GIII	£10	580	110	GIII	110	J 111	585	DCI	501	Lcu	*,***	590			
	tee	caσ	cac		aca	cag	cca	cag		caa	cct	caq	cta		cct	cag	1824
		3		9				_				,				-	

Use of n and/or Xaa has been detected in the Sequence Listing, Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/042,488A

DATE: 10/11/2001 TIME: 13:39:30

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10112001\1042488A.raw

L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

1600

DATE: 10/11/2001 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/042,488A TIME: 12:42:09

Input Set : A:\Sa1520-2.app

Output Set: N:\CRF3\10112001\I042488A.raw

```
Does Not Comply
                                                                 Corrected Diskette Needed
 3 <110> APPLICANT: EVANS, RONALD M.
       NO, DAVID
       SAEZ, ENRIQUE
 7 <120> TITLE OF INVENTION: METHODS FOR MODULATING EXPRESSION OF EXOGENOUS GENES IN
 8 . MAMMALIAN SYSTEMS, AND PRODUCTS REALTED THERETO
10 <130> FILE REFERENCE: SALK1520-2
12 <140> CURRENT APPLICATION NUMBER: 09/042,488A
13 <141> CURRENT FILING DATE: 1998-03-16
15 <150> PRIOR APPLICATION NUMBER: 08/974,530
16 <151> PRIOR FILING DATE: 1997-11-19
18 <150> PRIOR APPLICATION NUMBER: 08/628,830
19 <151> PRIOR FILING DATE: 1996-04-05
21 <160> NUMBER OF SEQ ID NOS: 18
23 <170> SOFTWARE: PatentIn Ver. 2.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 71
27 <212> TYPE: PRT
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
         peptide sequence
34 <220> FEATURE:
35 <221> NAME/KEY: MOD_RES
36 <222> LOCATION: (2)..(3)
37 <223> OTHER INFORMATION: Any amino acid
39 <220> FEATURE:
40 <221> NAME/KEY: MOD_RES
41 <222> LOCATION: (5)..(6)
42 <223> OTHER INFORMATION: Any amino acid
44 <220> FEATURE:
45 <221> NAME/KEY: MOD_RES
46 <222> LOCATION: (8)
47 <223> OTHER INFORMATION: Any amino acid
49 <220> FEATURE:
50 <221> NAME/KEY: MOD_RES
51 <222> LOCATION: (10)
52 <223> OTHER INFORMATION: Any amino acid
54 <220> FEATURE:
55 <221> NAME/KEY: MOD_RES
56 <222> LOCATION: (12)
57 <223> OTHER INFORMATION: Any amino acid
59 <220> FEATURE:
60 <221> NAME/KEY: MOD_RES
61 <222> LOCATION: (14)..(17)
62 <223> OTHER INFORMATION: Any amino acid
64 <220> FEATURE:
```

65 <221> NAME/KEY: MOD\_RES

Input Set : A:\Sa1520-2.app

Output Set: N:\CRF3\10112001\1042488A.raw

```
66 <222> LOCATION: (19)..(20)
     67 <223> OTHER INFORMATION: Any amino acid
     69 <220> FEATURE:
     70 <221> NAME/KEY: MOD_RES
     71 <222> LOCATION: (23)
     72 <223> OTHER INFORMATION: Any amino acid
     74 <220> FEATURE:
     75 <221> NAME/KEY: MOD_RES
     76 <222> LOCATION: (26)
     77 <223> OTHER INFORMATION: Any amino acid
     79 <220> FEATURE:
     80 <221> NAME/KEY: MOD_RES
     81 <222> LOCATION: (28)..(38)
     82 <223> OTHER INFORMATION: Any amino acid
     84 <220> FEATURE:
     85 <221> NAME/KEY: MOD_RES
     86 <222> LOCATION: (40)..(47)
     87 <223> OTHER INFORMATION: Any amino acid
     89 <220> FEATURE:
     90 <221> NAME/KEY: MOD_RES
     91 <222> LOCATION: (49)..(51)
     92 <223> OTHER INFORMATION: Any amino acid
     94 <220> FEATURE:
    95 <221> NAME/KEY: MOD_RES
    96 <222> LOCATION: (53)..(54)
     97 <223> OTHER INFORMATION: Amny amino acid
     99 <220> FEATURE:
    100 <221> NAME/KEY: MOD_RES
    101 <222> LOCATION: (56)..(57)
    102 <223> OTHER INFORMATION: Any amino acid
    104 <220> FEATURE:
    105 <221> NAME/KEY: MOD_RES
    106 <222> LOCATION: (59)..(60)
    107 <223> OTHER INFORMATION: Any amino acid
    109 <220> FEATURE:
    110 <221> NAME/KEY: MOD_RES
    111 <222> LOCATION: (63)..(64)
    112 <223> OTHER INFORMATION: Any amino acid
    114 <220> FEATURE:
    115 <221> NAME/KEY: MOD_RES
    116 <222> LOCATION: (67)..(69)
    117 <223> OTHER INFORMATION: Any amino acid
    119 <400> SEQUENCE: 1
119 <400> SEQUENCE: 1
W--> 120 Cys Xaa Xaa Cys Xaa Xaa Asp Xaa Ala Xaa Gly Xaa Tyr Xaa Xaa Xaa
    121 1 / , 5 , 10
W--> 123 Xaa Cys Xaa Xaa Cys Lys Xaa Phe Phe Xaa Arg Xaa Xaa Xaa Xaa Xaa
```

DATE: 10/11/2001 RAW SEQUENCE LISTING TIME: 12:42:09 PATENT APPLICATION: US/09/042,488A

Input Set : A:\Sa1520-2.app

Output Set: N:\CRF3\10112001\I042488A.raw

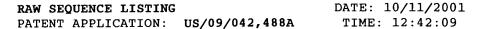
W--> 129 Xaa Xaa Xaa Lys Xaa Xaa Arg Xaa Xaa Cys Xaa Xaa Cys Arg Xaa Xaa 130 50 55 W--> 132 Lys Cys Xaa Xáa Xáa Gly Met 133 65 136 <210> SEQ ID NO: 2 137 <211> LENGTH: 5 138 <212> TYPE: PRT 139 <213> ORGANISM: Artificial Sequence 141 <220> FEATURE: 142 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide 145 <400> SEQUENCE: 2 146 Glu Gly Cys Lys Gly 147 1 150 <210> SEQ ID NO: 3 151 <211> LENGTH: 5 152 <212> TYPE: PRT 153 <213> ORGANISM: Artificial Sequence 155 <220> FEATURE: 156 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 157 peptide 159 <400> SEQUENCE: 3 160 Gly Ser Cys Lys Val 161 1 164 <210> SEQ ID NO: 4 165 <211> LENGTH: 2241 166 <212> TYPE: DNA 167 <213> ORGANISM: Artificial Sequence 169 <220> FEATURE: 170 <223> OTHER INFORMATION: Description of Artificial Sequence: Recombinant VgEcR 173 <220> FEATURE: 174 <221> NAME/KEY: CDS 175 <222> LOCATION: (1)..(2238) 177 <400> SEQUENCE: 4 178 atg gcc ccc ccg acc gat gtc agc ctg ggg gac gag ctc cac tta gac 179 Met Ala Pro Pro Thr Asp Val Ser Leu Gly Asp Glu Leu His Leu Asp 180 5 10 182 ggc gag gac gtg gcg atg gcg cat gcc gac gcg cta gac gat ttc gat 183 Gly Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp 25 20 186 ctg gac atg ttg ggg gac ggg gat tcc ccg ggt ccg gga ttt acc ccc 144 187 Leu Asp Met Leu Gly Asp Gly Asp Ser Pro Gly Pro Gly Phe Thr Pro 190 cac gac tcc gcc ccc tac ggc gct ctg gat atg gcc gac ttc gag ttt 192 191 His Asp Ser Ala Pro Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Phe 192 50 55

194 gag cag atg ttt acc gat gcc ctt gga att gac gag tac ggt ggg aag 195 Glu Gln Met Phe Thr Asp Ala Leu Gly Ile Asp Glu Tyr Gly Gly Lys

Input Set : A:\Sa1520-2.app

Output Set: N:\CRF3\10112001\I042488A.raw

196	65					70					75					80	
		at a	aat	200	tot		ann	ata	tca	aat		ata	tot	tca	ggt		288
						-									Gly		200
200	ьец	Leu	GIY	1111	85	ALG	Arg	116	261	90	261	116	261	261	95	ALG	
	ast	ant.	ata	taa		taa	age	age	tta		aaa	tac	ton	aca	aac	паа	336
															Asn		330
203	vsh	изр	neu	100	PIO	261	Ser	261	105	ASII	GIY	1 7 1	261	110	ASII	GIU	
	200	+ ~ ~	<b>a</b> 2 +		224	220	200	224		aas	aat	aoa	002		gtg	<b>C22</b>	384
															Val		304
207	ser	Cys	115	нта	гуу	пўэ	Ser	120	пуs	СТУ	PIO	ніа	125	Ary	vai	GIII	
	a a a	a 2 a		+ 00	ata	at t	tac		~ ~ ~	200	aca	tac		+20	cac	tac	432
															His		432
212	GIU	130	ьeu	Cys	цец	Val	135	GIY	rsb	ATY	нта	140	Сту	тут	птэ	ıyı	
	220		ata	200	+~+	aa a		tac	220	a+a	++0		002	aaa	agc	at t	480
															Ser		400
	145	нта	Leu	1111	Суз	150	ser	Cys	пуз	Val	155	PHE	ALY	Ary	261	160	
		224	344	~~~	at a		+~~	+~~	224	++0		000	aaa	tac	gaa		528
															Glu		320
220	1111	nys	ser	мла	165	тут	Cys	Суз	пуз	170	GIY	AIG	міа	Суз	175	Mec	
	~~~	2+4	+ > 0	2+4		000	220	+~+	aaa		taa	000	a+a	222		tac	576
	-	_		_		_	_	_	_		_	_	_		aag Lys		370
224	ASP	Met	TAT	180	MIG	AIG	гуэ	Cys	185	GIU	Cys	ALY	ьеu	190	цуз	Cys	
	ata	~~~	~+~		2+4	000	000	<i>~</i> 22		a+ a	a+ o	000	asa		022	tat	624
															caa Gln		024
227	ьец	нта	195	СТУ	Mec	AIG	PIO	200	Cys	vaı	vai	PIO	205	ASII	GIII	Cys	•
	aca	2+4		oaa	000		220		acc	020	220	a a a		aaa	222	atσ	672
															aaa Lys		072
231	нта	210	пуъ	AIG	AIG	GIU	цуS 215	гуѕ	нта	GIII	гуъ	220	пуs	ASP	пур	Mec	
	300		+00	000	200	+ 0+		ast	aaa	~~~	22t		200	++~	gcc	tat	720
															Ala		720
	225	1111	261	FIO	261	230	GIII	1113	Сту	Gry	235	Gry	261	шец	AIG	240	
		ααα	ααα	<b>C22</b>	a a a		att	224	aan	mam.		ctt	gac	ctt	atg		768
					-		_	_	_				_		Met		, 00
240	СТУ	СТУ	GIY	GIII	245	FIIC	Val	цуз	цуз	250	116	пеа	дър	пец	255	1111	
	tac	αασ	cca	aaa		cat	acc	act	att		cta	cta	cct	πat	gaa	ata	816
															Glu		010
244	Суз	Gru	PIO	260	GIII	птэ	АТа	1111	265	FIO	пец	пец	FIU	270	GIU	116	
	t+a	acc	220		caa	aca	cac	aat		cot	too	tta	aca		aat	can	864
															Asn		004
248	пец	ΑΙα	275	Cys	GIII	AIG	пта	280	110	110	Jei	шси	285	- y -	ASII	OIII	
	ttα	αcc		ata	tac	aad	tta		taa	tac	car	αat		tat	gag	cad	912
															Glu		712
252	пси	290	vuı	110	- I -	цу	295	110	112	-1-	OIII	300	0-1	-1-	ΟLU	0111	
	cca		αаа	αaα	aat	ctc		cat	ata	atα	agt		ccc	σat	gag	aac	960
															Glu		200
256		501	Jiu		-105	310	9	9			315	~	0		J_4	320	
		aσc	caa	асо	gac		aσc	+++	Caa	cat		acc	αρα	ata	acc		1008
															Thr		
260					325				5	330					335		
										-							



Input Set : A:\Sa1520-2.app

Output Set: N:\CRF3\10112001\I042488A.raw

262	ctc	acg	gtc	cag	ttg	att	gtt	gag	ttt	gct	aaa	ggt	cta	cca	gcg	ttt	1056
263	Leu	Thr	Val	Gln	Leu	Ile	Val	Glu	Phe	Ala	Lys	Gly	Leu	Pro	Ala	Phe	
264				340					345					350			
266	aca	aag	ata	ccc	cag	gag	gac	cag	atc	acg	tta	cta	aag	gcc	tgc	tcg	1104
267	Thr	Lys	Ile	Pro	Gln	Glu	Asp	Gln	Ile	Thr	Leu	Leu	Lys	Ala	Cys	Ser	
268			355					360					365				
270	tcg	gag	gtg	atg	atg	ctg	cgt	atg	gca	cga	cgc	tat	gac	cac	agc	tcg	1152
271	Ser	Glu	Val	Met	Met	Leu	Arg	Met	Ala	Arg	Arg	Tyr	Asp	His	Ser	Ser	
272		370					375					380					
274	gac	tca	ata	ttc	ttc	gcg	aat	aat	aga	tca	tat	acg	cgg	gat	tct	tac	1200
275	Asp	Ser	Ile	Phe	Phe	Ala	Asn	Asn	Arg	Ser	Tyr	Thr	Arg	Asp	Ser	Tyr	
	385					390			_		395		_	_		400	
278	aaa	atq	qcc	qqa	atq	qct	gat	aac	att	qaa	gac	ctq	ctg	cat	ttc	tgc	1248
															Phe		
280	-			-	405		•			410	•				415	-	
	cac	caa	ato	ttc	t.ca	atg	aag	ata	gac	aac	qtc	qaa	tac	qcq	ctt	ctc	1296
															Leu		
284	9	<b></b>		420			-1-		425				-1-	430			
	act	acc	at.t.	-	atc	t.t.c	t.ca	σac		cca	aac	cta	σασ	aag	gcc	caa	1344
															Ala		
288		****	435	, 41			001	440	5		1		445	-1-			
	cta	atc		aca	atc	caσ	age		tac	atc	gac	acσ		cac	att	t.a.t.	1392
															Ile		
292	LCu	450	OLU	1114	110	0111	455	-1-	- 1 -	110		460	204			- 1 -	
	ata		aac	cac	cac	tac		gac	tca	atσ	age		atc	ttc	tac	σса	1440
															Tyr		
	465	пси	ASII	1119	1115	470	017	P	DCI	1100	475	пси	, u _		-1-	480	
		cta	ctc	tca	atc		acc	σασ	cta	cat		cta	aac	aac	cag		1488
															Gln		1100
300	цуз	пеа	пец	DEI	485	Бец	1111	GIU	пси	490	1111	Licu	OLY	71511	495	21511	
	acc	ααα	atα	tat		tca	cta	ааσ	ctc		aac	cac	aaa	cta	CCC	ааσ	1536
															Pro		1330
304	nia	GIU	Mec	500	riic	561	пси	цуз	505	цуз	non	n. y	БуЗ	510	110	LyS	
	tta	ata	asa		ato	+ aa	a a c	att		acc	atc	ОСП	cca		gtc	сап	1584
															Val		1301
308	FIIE	цец	515	GIU	116	111	тэр	520	птэ	ALG	TTC	FIU	525	261	Val	GIII	
	+00	020		aaa	2++	200	a a a		a a a	220	a a a	aat		σεσ	cgg	act	1632
															Arg		1032
312	Ser		ьeu	GIII	TTE	1111		GIU	GIU	ASII	GIU	_	ьец	GIU	ALG	AIa	
		530	.+.	~~~	~~~	+	535	~~~	~~~	~~~	2++	540	~~~	~~~	2++	ant.	1680
															att		1000
		Arg	met	Arg	Ald		Val	GTA	GIY	Ата	555	1111	Ата	СТУ	Ile	560	
316						550			~~~	~~-		~~~	~~~		aa+		1728
															cat		1/20
	Cys	Asp	ser	Ата		Thr	ser	Ala	Ala		Ala	Ата	Ата	GII	His	GIII	
320					565					570	<b>.</b>	-+-			575	~~+	1776
															aac		1776
	Pro	GIN	Pro		Pro	GIN	PLO	GIN		ser	ser	ьeu	ınr		Asn	ASP	
324				580					585				_4 -	590			1004
326	tcc	cag	cac	cag	aca	cag	ccg	cag	cta	caa	cct	cag	cta	cca	cct	cag	1824

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/042,488A

DATE: 10/11/2001 TIME: 12:42:10

Input Set : A:\Sa1520-2.app

Output Set: N:\CRF3\10112001\1042488A.raw

L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:1465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

## Kaushal, Sumesh

From:

Kaushal, Sumesh

Sent:

Thursday, October 11, 2001 02:40 PM

To:

STIC-Biotech/ChemLib

Subject:

FW: Interference and SEQUENCE Search for 09/042488

Dear Sir/Madam: Please send a paper copy of SEQ-search report

## 09/042488

Title: METHOD FOR MODULATING EXPRESSION OF EXOGENOUS GENES IN MAMMALIAN SYSTEMS, AND

**PRODUCTS** 

**RELATED THERETO** 

Inventor: EVANS,RONALD M.

ERROR (S) IN CRF CORRECTED BY STIC

**Interference and SEQUENCE Search for** 09/042488

SEQ ID NO: 5

THANKS.!

Sumesh Kaushal CM1 12A07 AU1633 Ph: 703-305-6838